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(54) **Apparatus and method for image data coding with additional data embedding**

(57) The invention relates to a coding apparatus for embedding second data into first data without deterioration of the first data, and a decoding apparatus for decoding the coded data to the original first data and the second data without deterioration. The invention provides the coding apparatus which includes a memory for storing at least partial data of the first data and embeds the second data into the first data by performing

rotation of the at least partial data stored in the memory in accordance with the second data; and provides the decoding apparatus in which at least partial data of the coded data embedded with the second data is rotated and a correlation with respect to peripheral data is calculated, so that the original first data and the second data are decoded in accordance with a rotation amount determined on the basis of the correlation.

FIG. 9A

NTH LINE

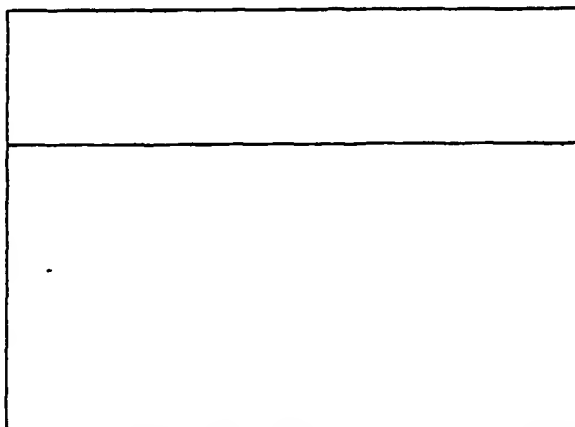


FIG. 9B

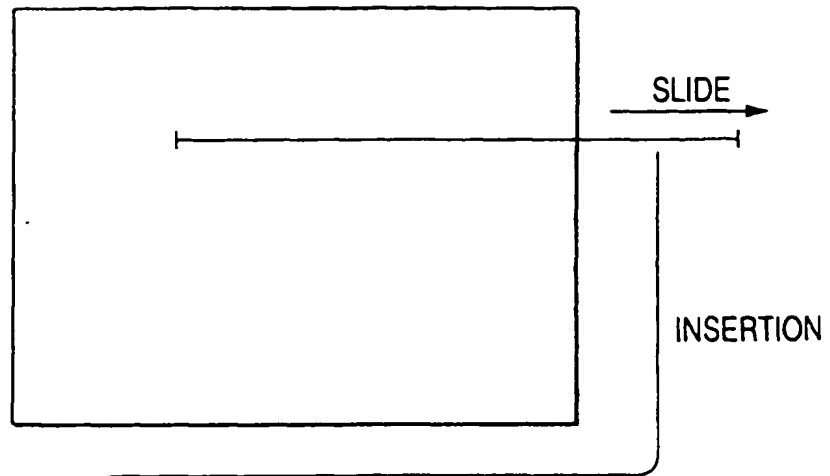
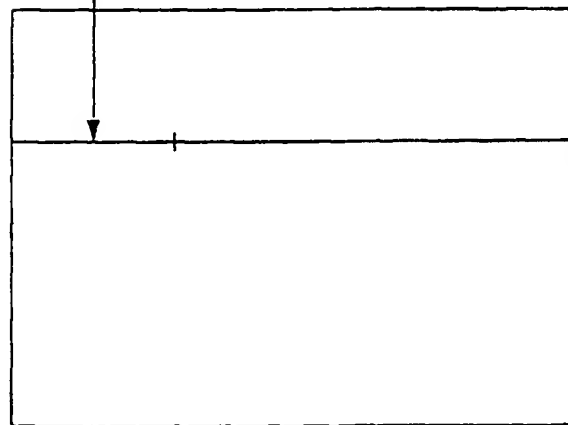


FIG. 9C





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EUROPEAN SEARCH REPORT

Application Number
EP 99 30 7907

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 February 2001	Examiner Barel-Faucheux, C
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

**ANNEX TO THE EUROPEAN SEARCH REPORT
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